

Appl. No. 10/604,855
Amdt. dated December 13, 2004
Reply to Office action of October 21, 2004

REMARKS/ARGUMENTS

The amendments described in the following sections are made with the intention of placing the application in condition for allowance.

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1. Objection to the drawings:

Fig.3 has been redrawn to clearly illustrate the TFT display area 52, as shown in the encircled area of the attached "Annotated drawing sheet". No
10 new matter is introduced by the above amendments, since it is in accordance with the originally disclosed TFT display area. Consideration of the proposed amendment to the drawings is politely requested.

2. Rejection of claims 11, 12, 14, 15, and 21 under 35 U.S.C. 103(a) as 15 being unpatentable over Corkum et al. in view of Gimzewski et al.:

Claim 11 is amended to overcome this rejection. Specifically, the limitation of "the thin film transistor control circuit being a low temperature polysilicon thin film transistor control circuit" is added. This
20 amendment is fully supported in the specification, such as in paragraph [0017]. No new matter is entered.

Regarding US 5,7924,954, Corkum discloses a condition responsive sensor substantially comprising a substrate 12, electrically conductive
25 sensor elements 14, and conditioning electronics 12e.

Regarding US 5,780,727, Gimzewski teaches that the amplifying

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circuit of a cantilever sensor can advantageously be fabricated using thin film transistor deposited on an insulating substrate comprising alumina.

5 In contrast to Corkum's teaching in view of Gimzewski's teaching, the present application, as recited in the amended claim 11, discloses an acceleration sensor comprising:

- an insulating substrate;
- a cantilever beam structure positioned on the insulating substrate
- 10 having a movable section, the movable section comprising a movable electrode;
- a stationary electrode positioned on the insulating substrate and opposite to the movable section of the cantilever beam structure, the stationary electrode and the movable electrode constituting a plate
- 15 capacitor; and
- a thin film transistor control circuit positioned on the insulating substrate and electrically connected to the plate capacitor, the thin film transistor control circuit being a low temperature polysilicon thin film transistor control circuit.

20 Corkum fails to teach or suggest the limitation of "the thin film transistor control circuit being a low temperature polysilicon thin film transistor control circuit", and neither does Gimzewski. In addition, the applicant notes that claim 16 which recites the limitation "the thin film
25 transistor control circuit being a low temperature polysilicon thin film transistor control circuit" would be allowable if rewritten in independent form as the examiner has stated. For this reason, and since intervening claim 15 contains only irrelevant limitations, the applicant asserts that the amended claim 11 should be patentable over Corkum in view of

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Gimzewski, and thus, claim 11 includes an unobvious limitation over Corkum's teaching in view of Gimzewski. Claims 12, 14, 15, and 21 are dependent on claim 11 and should be allowed if claim 11 is allowed.

5 Reconsideration of amended claim 11 and claims 12, 14, 15, and 21 is requested.

3. Rejection of claim 13 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Gimzewski et al., and further in view of
10 Pierre et al. or Cahill et al.:

Claim 13 is dependent on claim 11 and should be allowed if claim 11 is allowed. Reconsideration of claim 13 is therefore politely requested.

15 4. Rejection of claim 17 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Gimzewski et al., and further in view of Nakatani et al.:

20 Claim 13 is dependent on claim 11 and should be allowed if claim 11 is allowed. Reconsideration of claim 13 is politely requested.

5. Rejection of claim 17 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Nakatani et al.:

25 Claim 17 has been cancelled.

6. Rejection of claim 20 under 35 U.S.C. 103(a) as being unpatentable over Corkum et al. in view of Gimzewski et al., and further in view of Tanaka et al.:

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Claim 20 is dependent on claim 11 and should be allowed if claim 11 is allowed. Reconsideration of claim 20 is politely requested.

5 **7. New claims 22-28:**

10 The applicant notes that claim 18 which recites the limitation "the thin film transistor control circuit being a high temperature polysilicon thin film transistor control circuit" would be allowable if rewritten in independent form as the examiner has stated. Also, the applicant asserts that intervening claim 17 (now 26) contains only irrelevant limitations. Therefore, claim 28 claims a capacitive acceleration sensor, which is equivalent to the contents of the previously-presented claim 11 in combination with the limitation "the thin film transistor control circuit
15 being a high temperature polysilicon thin film transistor control circuit" recited in the previously-presented claim 18. This limitation finds support in the specification in paragraph [0017], and no new matter is entered. In addition, claims 23-28 are dependent on claim 22, and find support in the specification in paragraphs [0015] to [0018].

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Consideration of new claims 22-28 is respectfully requested.

8. Objection to claims 16 and 18 as being dependant upon a rejected base claim:

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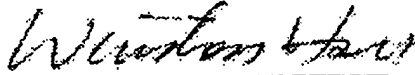
Claims 16 and 18 have been cancelled.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

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Sincerely yours,

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Date: DEC 14 2004

Winston Hsu, Patent Agent No. 41,526
P.O. BOX 506, Merrifield, VA 22116, U.S.A.
Voice Mail: 302-729-1562

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Facsimile: 806-498-6673
e-mail : winstonhsu@naipo.com
(Please contact me by voice mail if you need a telephone communication.)

Attachments:

15

The attachment (2 pages) includes a "Replacement Sheet" of Fig.3 and an "Annotated Drawing Sheet" showing changes.

Annotated drawing sheet

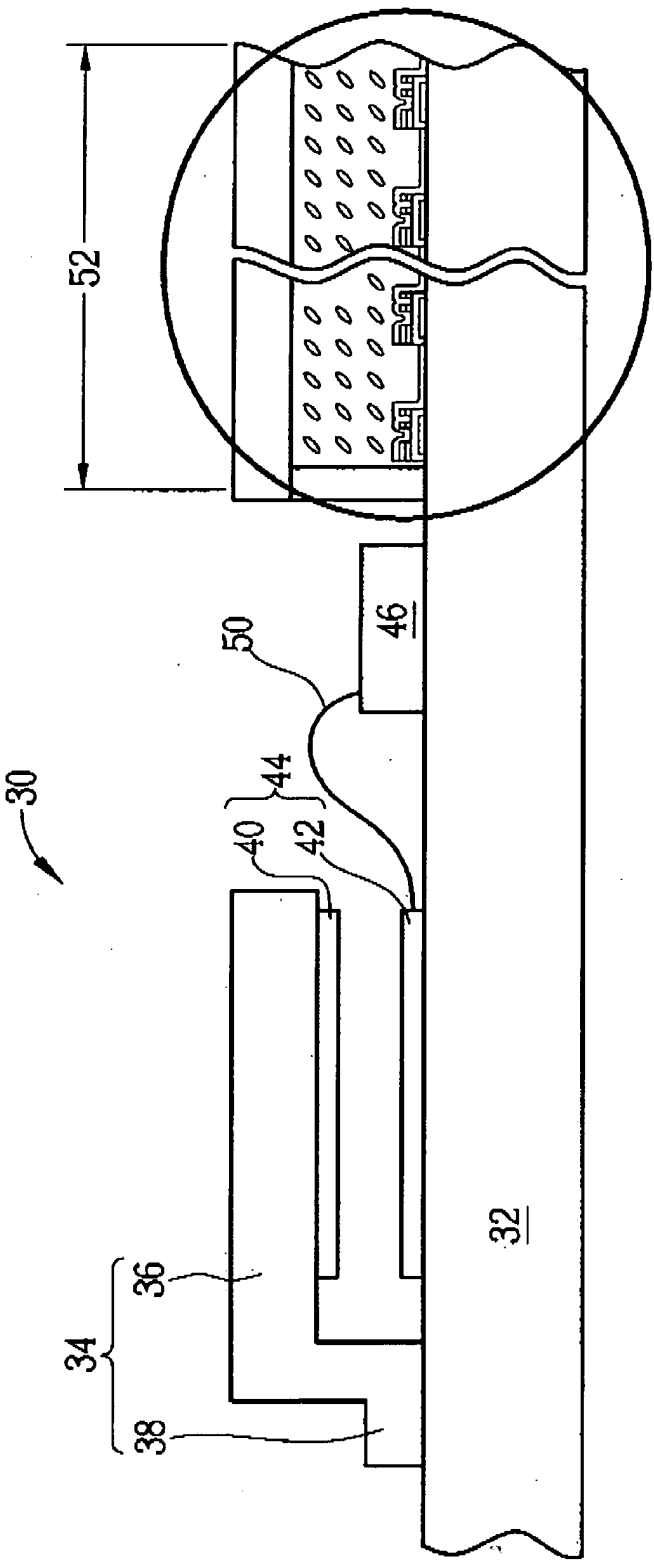


Fig. 3

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